Safety Data Sheet

according to 2001/58/EC

LZM 282 Addista-color: 1/1

Product code: LZM282

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1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation

LZM 282 Addista-color, 1/1

Use of the substance/preparation

Water analysis

1.2 Company/undertaking identification

Company name: HACH LANGE GmbH
Street: Willstätterstr. 11
Place: D-40549 Düsseldorf

Telephone: +49(0)2115288 0
Telefax: +49(0)2115288143

Company name: HACH LANGE Ltd.
Street: Pacific Way
Place: Salford Manchester M50 1DL - England
Telephone: +44 (0) 161 872 1487
Telefax: +44 (0) 161 872 1487

Inquiry office: info@hach-lange.de

2. Composition/information on ingredients

Chemical characterization (preparation)

Hazardous components

<table>
<thead>
<tr>
<th>EC-No.</th>
<th>CAS-No.</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>213-791-2</td>
<td>7732-18-6</td>
<td>Water</td>
<td>&gt; 95%</td>
<td></td>
</tr>
<tr>
<td>231-595-7</td>
<td></td>
<td>hydrochloric acid ... %</td>
<td>&lt; 2.5 %</td>
<td>C, Xi R34-37</td>
</tr>
</tbody>
</table>

Full text of each relevant R phrase can be found in heading 16.

3. Hazards identification

Classification

The product does not need to be labelled in accordance with EC directives or respective national laws.

4. First aid measures

General information

Take off contaminated clothing and shoes immediately.
Show this safety data sheet to the doctor in attendance.

After inhalation

Move to fresh air.
If symptoms persist, call a physician.

After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.
If skin irritation persists, call a physician.

After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion
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Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

Advice to doctor
Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases
Fire may liberate hazardous vapours.

Special protective equipment for fire-fighters
In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.
In the event of fire, wear self-contained breathing apparatus.

Additional information
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

Personal precautions
Use personal protective equipment.

Environmental precautions
Do not flush into surface water or sanitary sewer system.

Methods for cleaning up/taking up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Handling
Advice on safe handling
Avoid contact with skin and eyes.

7.2 Storage
Requirements for storage rooms and vessels
Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

8.1 Exposure limit values

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>m³/m³</th>
<th>mg/m³</th>
<th>F/m³</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>7647-01-0</td>
<td>Hydrogen chloride (gas and aerosol mists)</td>
<td>1</td>
<td>2</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>8</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Occupational exposure controls
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
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Protective and hygiene measures
Wash hands before breaks and at the end of workday.

Respiratory protection
Provide adequate ventilation.

Hand protection
Use barrier skin cream.
The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye protection
safety glasses with side-shields

Skin protection
Avoid contact with skin, eyes and clothing.

9. Physical and chemical properties

9.1 General information
Physical state
liquid
Colour
yellow, red
Odour
odourless

9.2 Important health, safety and environmental information

Test method

pH-Value (at 20 °C):
2.5

Changes in the physical state

Flash point
not applicable

Lower explosion limits
not applicable

Upper explosion limits
not applicable

Density (at 20 °C):
1.0 g/cm³

Water solubility:
soluble
at (20 °C)

10. Stability and reactivity

Additional Information
Stable under recommended storage conditions.

11. Toxicological information

Acute toxicity
No toxicology information is available.

12. Ecological information

Ecotoxicity
No information on ecology is available.

13. Disposal considerations

Advice on disposal
In accordance with local and national regulations.
Our local agencies will accept used cuvettes to ensure their proper disposal.
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Waste disposal number of waste from residues/unused products
160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of used product
160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of contaminated packaging
160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

14. Transport information

Land transport (ADR/RID)
Remarks (land transport)
Not subject to transport regulations.

Inland waterways transport
Remarks (inland waterways transport)
not tested

Marine transport
Remarks (marine transport)
Not subject to transport regulations.

Air transport
Remarks (air transport)
Not subject to transport regulations.

15. Regulatory Information

15.1 Labelling
Labelling according to EC-guidelines
Classification according to European directive on classification of hazardous preparations 1999/45/EC.

15.2 National regulations
Water contaminating class
1 - slightly water contaminating

16. Other information

List of relevant R phrases
34 Causes burns.
37 Irritating to respiratory system.

Other data
The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)